

Ovens

Designer Series Ovens

The Contherm Thermotec Designer Series Ovens can achieve consistent temperature control over the range of ambient +5°C to 260°C (nominal). Rapid and continuous drying is achieved by the introduction of warm, dry air regulated by an adjustable vent.



An efficient fan-driven toroidal air and heating system assures even circulation and is controlled by the proven Contherm ZP21 microprocessor-based system. With an easy-to-set and read LED display, the system offers precision steady-state operation, with audible and visual alarms for over and under temperature, plus a selectable 100 hour timer. In addition, the system is EEROM backed to retain the calibration factor and set-points for audit purposes after power failures.

The compression door catch and hinge system ensures leak-proof sealing for low thermal and fume loss, with an integral switch to interrupt fan and heating when door is opened.

All controls and active components are in the door which can be removed as a unit for service should this be necessary. The Contherm Thermotec Designer Series Ovens offer educational and industrial users maximum performance and reliability in an attractive and cost-effective package

Brief Specifications

Operating Temperature	Ambient+5°C to 260°C
Setability	0.1°C
Controller	Microprocessor ZP21 Series
Timer	1 minute to 99hrs 59mins or continuous
Spatial Variation	±2.5°C unloaded at 105°C
Temporal Variation	±0.2°C unloaded at 105°C
Power Requirements	240Vac 50Hz 10A grounded supply

Models:

Model 8050 -50L	Rowe Code IO1258
Model 8100 -100L	Rowe Code IO1260
Model 8150 -150L	Rowe Code IO1265



ontherm

We also supply Contherm Ovens from 200-1000L

Contact us ...



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Ovens

Muffle Furnace - 1150C

SEM

SEM Muffle Furnaces are available in two sizes, 100 series and 200 series. Both sizes can be supplied with either a sliding or cantilever type door. The quick action sliding door can be held in any position and is ideal for ashing or similar operations. A cantilever door has an outward and upward swing with a counter-balanced handle.

The furnaces are strongly constructed of zinc coated steel powder coated Wedgewood blue with HI Temp black front face and door. The muffle is strongly supported by a refractory mould at the front and insulating bricks at the back. It is insulated with top grade Kaowool ceramic fibre blanket.

The steel cover around the baffle is surrounded by an air cavity and by gravity convection draws heat away from the bottom and out through the top reducing the wall temperature of the outer body. An air gap at the front and louvres on the back panel allow adequate air flow to ensure a cool instrument panel. All cantilever door furnaces are fitted with a door switch for safety.

Kanthal A1 Element is controlled by a microprocessor based PID Controller complete with Auto Tune function and sensor compensation for accurate temperature control.

Options:

- 7 day or 24 hour Timer
- Programmable Controller (up to 81 steps)
- Ramp Function
- Overtemp Cutout (complete with Alarm Indicator)
- Monitory Overheat Cutout (separate Controller & Thermo Couple)

Rowe Code	Model C = Cantilever S = Sliding Door	Power Rating W	Dimensions						Weight Kg
			Internal			External			
			D	W	H	D	W	H	
IF1570	102C	2200	250	160	90	456	468	560	50
IF1580	102S	2200	250	160	90	456	468	560	50
IF1560	202C	4500	435	230	150	608	546	630	70
IF1565	202S	4500	435	230	150	608	546	630	70

Multi Purpose Ovens

SEM

S.E.M. Laboratory Ovens are solidly built with triple wall construction. The interior is of satin finish stainless steel and the heating chamber and outer body of zinc coated steel. The door is constructed and insulated for temperatures up to 300°C on standard models. SEM ovens feature a solid state digital controller with touch switch temperature selection, working in conjunction with a zero switching solid state relay. A push button reset overheat thermostat is mounted on the control panel.

A range of sizes and types are available to suit the varying requirements of individual users. Higher temperature operating standards can be met and certified tests can be performed if required.

Models range from tiny 10 litre to large 432 litre sizes. A full range of options is available to design the oven to user requirements.



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